

REMARKS

Status of the Claims:

The Office Action dated January 11, 2007 has been received and reviewed by the applicant. Claims 1-19 are in the application. Claims 1-19 stand rejected.

Claim Rejection 35 USC 102

Claims 1-19 stand rejected under 35 U.S.C. 102(a) as being anticipated by Prentice et al. (US 2003/0030729). These rejections are respectfully traversed in light of the arguments below, and reconsideration of the present application is requested.

The Examiner makes reference to Figure 5, items 77 and 90; Figure 6, items 102 and 104; and paragraphs 0039 and 0052. Paragraph 0039 states:

The 3x3 matrix 77 applied to a color correction step 90 is a conventional color matrix of the type used to correct for color "cross-talk" in the sensor, as described in a journal article entitled "High-Performance Digital Color Video Camera", Journal of Electronic Imaging, Vol. 1, pp. 35-45, January 1992. Hue and saturation adjustments made by the user are applied by appropriately adjusting the matrix values of the still processing path.

Paragraph 0052 states:

A 3.times.3 matrix gamma-space color correction matrix 102 is applied to the signal stream in a color correction step 104 and approximately corrects for color "cross-talk" in the sensor, and provides pixel data in the desired "YUV" luminance/color difference output color space. The matrix 102 also modifies the image according to the current settings of the hue/saturation controls.

The independent claims, 1, 8, and 15, of the present application recite "applying crosstalk coefficients to generate a calculated first pixel value with reduced charge diffusion crosstalk" (claim 1), and "inputting crosstalk coefficients for reducing diffusion crosstalk caused by electrons migrating" (claims 8), and "crosstalk coefficients for reducing diffusion crosstalk caused by

electrons migrating” (claim 15). Neither the drawings nor the above paragraphs of Prentice teach, either directly or inherently, or suggest reducing charge diffusion crosstalk or reducing crosstalk caused by migrating electrons.

The journal article by Kenneth A. Parulski et al. referenced in paragraph 0039 of Prentice entitled "High-Performance Digital Color Video Camera", Journal of Electronic Imaging, Vol. 1, pp. 35-45, January 1992, a copy of which is attached, describes color correction similar to the color correction described in the present application beginning in the paragraph bridging pages 6 and 7 of the application. This color correction is separate and distinct from the crosstalk calibration due to charge diffusion crosstalk and electron migration recited in the independent claims.

The Kenneth A. Parulski et al. article describes the color correction in section 6 beginning on page 41 of the article. The first sentence on page 42 states “A mask programmable 3 X 3 color correction matrix is used to improve the color reproduction by correcting the camera responsiveness property for the display phosphor chromaticities.” The first full sentence after the equations (3) on the same page states “The coefficients a_{ij} depend on the color-mixture functions of the phosphors used in the television display and the responsivities of the RGB signals prior to matrixing, which includes the lens, infrared blocking filter, and color sensor.” The Parulski et al article does not disclose or suggest reducing charge diffusion crosstalk or reducing crosstalk caused by migrating electrons.

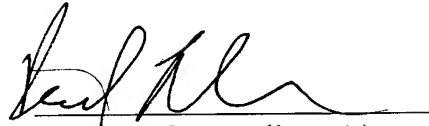
If the independent claims are patentable then the remaining claims of the present application, which are all dependent claims, are also patentable over Prentice.

Summary

Should the Examiner consider that additional amendments are necessary to place the application in condition for allowance, the favor is requested of a telephone call to the undersigned counsel for the purpose of discussing such amendments.

For the reasons set forth above, it is believed that the application is in condition for allowance. Accordingly, reconsideration and favorable action are respectfully solicited.

Respectfully submitted,

A handwritten signature in black ink, appearing to be 'Raymond L. Owens', written over a horizontal line.

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If the Examiner is unable to reach the Applicant(s) Attorney at the telephone number provided, the Examiner is requested to communicate with Eastman Kodak Company Patent Operations at (585) 477-4656.